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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	10596851
Filing Date	2006-06-27
First Named Inventor	Brown
Art Unit	1731
Examiner Name	
Attorney Docket Number	101260-1P US

U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3940386		1976-02-24	Szabo et al.	
	2	5574159		1996-11-12	Chang et al.	
	3	5681830		1997-10-28	Chang et al.	
	4	5807858		1998-09-15	Chang et al.	
	5	5854249		1998-12-29	Chang et al.	
	6	6130222		2000-10-10	Roberts et al.	
	7	6680318		2004-01-20	Brown et al.	
	8	6680321		2004-01-20	Roberts et al.	

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9	6696447		2004-02-24	Brown et al.	
10	6784181		2004-08-31	Brown et al.	

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	1	8604584	WO		1986-08-14	Aktiebolaget Leo		<input type="checkbox"/>
	2	9107967	WO		1991-06-13	Janssen		<input type="checkbox"/>
	3	9204338	WO		1992-03-19	The Up-John Co.		<input type="checkbox"/>
	4	9315062	WO		1993-08-05	The Wellcome Foundation Limited		<input type="checkbox"/>

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5	9504051	WO		1995-02-09	The Wellcome Foundation Limited		<input type="checkbox"/>
6	9723466	WO		1997-07-03	Astra Aktiebolag		<input type="checkbox"/>
7	9828270	WO		1998-07-02	Astra Aktiebolag		<input type="checkbox"/>
8	9828275	WO		1998-07-02	Astra Aktiebolag		<input type="checkbox"/>
9	9933806	WO		1999-07-08	Ortho-McNeil		<input type="checkbox"/>
10	0145637	WO		2001-06-28	AstraZeneca AB		<input type="checkbox"/>
11	0146174	WO		2001-06-28	AstraZeneca AB		<input type="checkbox"/>
12	0174805	WO		2001-10-11	AstraZeneca AB		<input type="checkbox"/>
13	02094786	WO		2002-11-28	AstraZeneca AB		<input type="checkbox"/>
14	02094794	WO		2002-11-28	AstraZeneca AB		<input type="checkbox"/>
15	03029215	WO		2003-04-10	AstraZeneca AB		<input type="checkbox"/>

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	16	03094853	WO		2003-11-20	AstraZeneca AB et al.		<input type="checkbox"/>
	17	2004041800	WO		2004-05-21	AstraZeneca AB		<input type="checkbox"/>
	18	2004041801	WO		2004-05-21	AstraZeneca AB		<input type="checkbox"/>
	19	2004041802	WO		2004-05-21	AstraZeneca AB		<input type="checkbox"/>
	20	2005066148	WO		2005-07-21	AstraZeneca AB		<input type="checkbox"/>
	21	2006014133	WO		2006-02-09	AstraZeneca AB		<input type="checkbox"/>
	22	2006091160	WO		2006-08-31	AstraZeneca AB		<input type="checkbox"/>
	23	0133323	EP		1985-02-20	The Wellcome Foundation Limited		<input type="checkbox"/>
	24	0166302	EP		1986-01-02	Polindustria		<input type="checkbox"/>
	25	0289227	EP		1988-11-02	Syntex		<input type="checkbox"/>
	26	0283310	EP		1988-09-21	Sankyo Company		<input type="checkbox"/>

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27	0624584	EP		1998-08-19	Daiichi		<input type="checkbox"/>
28	2076403	GB		1981-12-02	Selvi & C.S.p.A.		<input type="checkbox"/>
29	2210366	GB		1989-06-07	American Home		<input type="checkbox"/>
30	2431178	DE		1975-01-16	Cemol S.A.		<input checked="" type="checkbox"/>
31	2900810	DE		1980-07-24	Cassella AG		<input checked="" type="checkbox"/>
32	2696744	FR		1994-04-15	Laboratoires		<input checked="" type="checkbox"/>
33	7138230	JP		1995-05-30	Nippon Shoji KK		<input checked="" type="checkbox"/>

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NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	BILSKY et al., "SNC 80, A selective, nonpeptidic and systematically active opioid delta agonist," J. Pharmacol. Exper. Ther., 1995, Vol. 273, pgs. 359-366	<input type="checkbox"/>
	2	BILSKY et al., "Characterization of enantiomers of (+)BW373U86 and related compounds: highly selective non-peptidic delta opioid agonists," Reg. Peptides, 1994, Vol. 54, pgs. 25-26	<input type="checkbox"/>

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3	BURKEY et al., "The efficacy of delta-opioid receptor-selective drugs," Medline Abstract for Life Sciences, 1998, Vol. 62, pgs. 1531-1536	<input type="checkbox"/>
4	CALDERON et al., "Probes for narcotic receptor mediated phenomena. 19. Synthesis of... opioid receptor agonist," J. Med. Chem., 1994, Vol. 37, pgs. 2125-2128	<input type="checkbox"/>
5	CALDERON et al., "Probes for narcotic receptor mediated phenomena. 23. Synthesis of... opioid receptor ligands," J. Med. Chem., 1997, Vol. 40, pgs. 695-704	<input type="checkbox"/>
6	CHANG et al., "A novel, potent and selective nonpeptidic delta opioid receptor agonist BW373U86," J. Pharmacol. Exper. Ther., 1993, Vol. 267, pgs. 852-857	<input type="checkbox"/>
7	GREEN, "Protective groups in organic synthesis," 1981, pgs. 267-268 and 331	<input type="checkbox"/>
8	KATRIZKY et al., "Benzotriazole-mediated arylalkylation and heteroarylalkylation," Chem. Soc. Rev., 1994, Vol. 23, pgs. 363-373	<input type="checkbox"/>
9	KINGSBURY et al., "Synthesis of structural analogs of leukotriene B and their receptor binding activity," J. Med. Chem., 1993, Vol. 36, pgs. 3308-3320	<input type="checkbox"/>
10	LOPEZ et al., "Exploring the structure-activity relationships... opioid receptor nonpeptide agonist ligand," J. Med. Chem., 1999, Vol. 42, pgs. 5359-5368	<input type="checkbox"/>
11	NAGASE et al., "The pharmacological profile of delta opioid receptor ligands, (+) and (-) TAN-67 on pain modulation," Medline Abstract for Life Sci., 2001, Vol. 68, pgs. 2227-2231	<input type="checkbox"/>
12	NORTEY et al., "Piperazinyl benzamides: synthesis and affinity for the delta opioid receptor," Bioorganic & Medicinal Chemistry Letters, 2001, Vol. 11, pgs. 1741-1743	<input type="checkbox"/>
13	PLOBECK et al., "New diarylmethylpiperazines as potent and selective nonpeptidic opioid... with increased in vitro metabolic stability," J. Med. Chem., 2000, Vol. 43, pgs. 3878-3894	<input type="checkbox"/>

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14	SNYDER et al., "Historical review: opioid receptors," Trends in Pharmacological Sciences, 2003, Vol. 24, pgs. 198-205	<input type="checkbox"/>
15	SUGGS et al., "Facile synthesis of 8-substituted quinolines," J. Org. Chem., 1980, Vol. 45, pgs. 1514-1515	<input type="checkbox"/>
16	TAKEMORI et al., "Selective natrexone-derived opioid receptor antagonists," Annu. Rev. Pharmacol. Toxicol., 1992, Vol. 32, pgs. 239-269	<input type="checkbox"/>
17	ZHANG et al., "Probes for narcotic receptor mediated phenomena. 26. Synthesis... opioid receptor ligands," J. Med. Chem., 1999, Vol. 42, pgs. 5455-5463	<input type="checkbox"/>
18	Abstract for HU 217619. A corresponding English language PCT application is cited WO86/04584	<input type="checkbox"/>
19	Abstract for HU 215847. A corresponding English language PCT application is cited WO91/07967	<input type="checkbox"/>
20	Filliol, D. et al., "Mice deficient for delta- and mu-opioid receptors exhibit opposing alternations of emotional responses," Nature Genetics, 2000, Vol. 25, pgs. 195-200.	<input type="checkbox"/>
21	WOLFF, M., "Burger's Medicinal Chemistry and Drug Discovery," 5 ed, Part 1, John Wiley & Sons, 1995, pgs. 975-977	<input type="checkbox"/>
22	BANKER, G. et al., "Modern Pharmaceutics," 3 ed, Marcel Dekker, New York, 1996, pgs. 451 and 596	<input type="checkbox"/>
23	WEST, A., "Solid State Chemistry and it Applications," Wiley, New York, 1988, pgs. 358 & 365	<input type="checkbox"/>
24	VIPPAGUNTA, S. et al., "Crystalline Solids," Advanced Drug Delivery Review," Vol. 48, 2001, pgs. 3-26	<input type="checkbox"/>

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25	DAVIS, MP et al., "Controversies in pharmacotherapy of pain management," Lancet oncol. 6(9), 2005, 696-704	<input type="checkbox"/>
26	PRZEWLOCKI, R. et al., "Opioids in neuropathic pain," Current. Pharm. Des., 11(23), 2005, 2941-2943	<input type="checkbox"/>
27	ADRIAENSEN, H. et al., "Critical review of oral drug treatments for diabetic neuropathic pain-clinical outcomes based on efficacy and safety data from placebo-controlled and direct comparative studies," Diabetes Metab. Res. Rev., 21 (3), 2005, 231-240	<input type="checkbox"/>

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EXAMINER SIGNATURE

Examiner Signature	/Erich Leeser/	Date Considered	01/23/2008
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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- ☒ See attached certification statement.
- ☐ Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☐ None

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jianzhong SHEN, Reg.#48076/	Date (YYYY-MM-DD)	2006-10-18
Name/Print	Jianzhong Shen	Registration Number	48,076

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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